



# Vanguard Computer Technology Labs

<http://vctlabs.com>

## Demo Hardware and Software

Raspberry Pi – Custom OpenEmbedded image, Raspbian, Raspbmc  
BeagleBone (Black and White) – Upstream OpenEmbedded image, Gentoo  
Udoo – Udoobuntu 1.0, Android 4.3  
Spartan FPGA, Arduino, Papilio – Custom firmware (VHDL, sketches)  
Support tools include x86 laptops with Linux and Mac OS/X

## Open Source Demo Links

Nexys 3: <http://digilentinc.com/Products/Detail.cfm?NavPath=2,400,897&Prod=NEXYS3>  
Papilio: <http://papilio.cc/>  
Arduino: <http://arduino.cc/>  
Raspberry Pi: <http://www.raspberrypi.org/>  
BeagleBone: <http://beagleboard.org/black>  
Udoo: <http://www.udoo.org/>  
Yocto Project: <https://www.yoctoproject.org/>  
OpenEmbedded: [http://www.openembedded.org/wiki/Main\\_Page](http://www.openembedded.org/wiki/Main_Page)  
VCT Team on Github: <https://github.com/VCTLabs>  
VCT Team on Meetup: <http://www.meetup.com/Central-Coast-Open-Source-Solutions-Exchange/>

## VCT Labs Info

### *Who We Are:*

A group of consulting open source developers and engineers, science geeks, educators, and Subject Matter Experts (open source, Gnu/Linux, embedded, engineering process, system architecture/cybersecurity, applied earth science, hazard/risk assessment). We are active in several open source projects, including Gentoo Linux, Yocto/Openembedded, and the Linux Kernel, and have supported numerous small/medium/large projects and customers (Lockheed-Martin, ITT, Linux Foundation, Conmed, Arthrex California Technology, FLIR).

### *What We Do:*

Custom engineering and business support (server-side, desktop, embedded, mobile), project definition/startup, life-cycle process and manufacturing support, validation and verification, education and training, community building. We have serious expertise in everything from aerospace to medical devices, multi-spectral image capture and processing to geophysical and meteorological instrumentation and modeling. We can help you with pretty much everything from wind power siting to mobile app development and building your community.



**Central Coast Open Source Solutions Exchange**

